PATENT COOPERATION TREATY

INTERNATION	ONAL SEARC	HING AUTH	ORITY					
To:					PCT			
FREDERIC A. SPAETH					101			
CANTOR COLBURN LLP 55 GRIFFIN ROAD SOUTH				IIMPETERI ODINIONI OF THE				
BLOOMFIELD, CT 06002				WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY				
				INTERNATIONAL SEARCHING AUTHORITY				
				(PCT Rule 43 <i>bis</i> .1)				
				Date of mailing (day/month/year) 07 NOV 2007				
Applicant's or agent's file reference				FOR FURTHER ACTION See paragraph 2 below				
DNI-0024-PCT								
International application No. International fil			International filing date	(day/month/year)	Priority date (day/month/year)			
			30 April 2004 (30.04.20		30 April 2003 (30.04.2003)			
International	l Patent Classifi	cation (IPC) o	or both national classificat	ion and IPC				
PC: C06C 5/00(2006.01),5/04(2006.01) USPC: 102/275.3								
Applicant								
DYNO NOE	BEL INC							
1. This opinion contains indications relating to the following items:								
	Box No. I Basis of the opinion							
<u> </u>	Box No. II Priority							
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
1	Box No. IV	x No. IV Lack of unity of invention						
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
I	Box No. V1 Certain documents cited							
	Box No. VII Certain defects in the international application							
F	Box No. VIII Certain observations on the international application							
2. FURTHER ACTION								
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.								
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.								
For further options, see Form PCT/ISA/220.								
3. For further details, see notes to Form PCT/ISA/220.								
Name and m	ailing address o	f the ISA/ US	Date of complet	tion of this opinion	Authorized officer			
Mai	il Stop PCT, Attn:	ISA/US		•	150			
	nmissioner for Pat . Box 1450	tents	23 July 2007 (2	3.07.2007)	Michael Carone			
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201				Telephone No. 571-272-6873				

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/13340

Box No. I Basis of this opinion						
1. With regard to the language, this opinion has been established on the basis of:						
the international application in the language in which it was filed						
a translation of the international application into, which is the language of a translation furnished for the purposes international search (Rules 12.3(a) and 23.1(b)).	of					
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
a. type of material						
a sequence listing						
table(s) related to the sequence listing						
b. format of material						
on paper						
in electronic form						
c. time of filing/furnishing						
contained in the international application as filed.						
filed together with the international application in electronic form.						
furnished subsequently to this Authority for the purposes of search.						
3. In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been fi or furnished, the required statements that the information in the subsequent or additional copies is identical to that in application as filed or does not go beyond the application as filed, as appropriate, were furnished.	ed the					
4. Additional comments:						
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prm PCT/ISA/237/Box No. D (April 2005)						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/13340

Statement		
Novelty (N)	Claims 1-27	YE
	Claims NONE	NO
Inventive step (IS)	Claims NONE	YES
	Claims 1-27	NO
Industrial applicability (IA)	Claims 1-27	YES
	Claims NONE	NO

2. Citations and explanations:

Claims 1-27 lack an inventive step under PCT Article 33(3) as being obvious over Knowlton et al. (US 2002/0035945 A1) in view of Manzara (US 5,681,904). Knowlton et al. disclose the invention substantially as claimed including delay compositions used in an initiator application, the delay composition comprising a resin such as vinyl alcohol acetate resin (see abstract; page 8, paragraph [0080]). However, Knowlton et al. does not specifically list the polymer GAP. Manzara '904 discloses a reactive polymer material, such as GAP resin that has been cross linked with a multifunctional dipolarophile material, which can be used in applications requiring a high energy material (see abstract; col. 1, lines 10-23; col. 2, lines 9-25). Arpin et al. '627 disclose GAP polymer added to the initiation portion of a detonator (abstract; col. 7, lines 10-22). In view of either Manzara or Arpin et al. it would have been obvious to one of ordinary skill in the art to select GAP polymer as the delay composition of the Knowlton et al. initiator because to do so would only utilize a well known reactive polymer in a well known application, such as in a delay composition of an initiator or detonator or fuse.

Claims 1-27 meet the criteria set out in PCT Article 33(4), and thus claims 1-27 possess industrial applicability because the subject matter claimed can be made or used in industry.